

2015 Idaho Grain Outlook



Kelly Olson, kolson@barley.idaho.gov Northwest Farm Credit, May 13, 2015

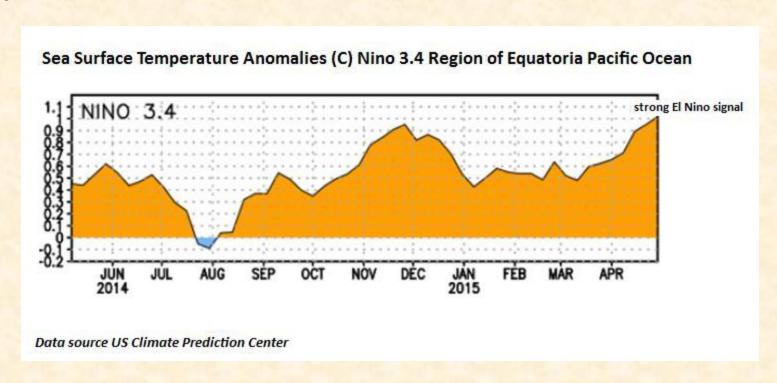


Key Points

- □ Recap 2014 Idaho Grain Crop Issues
- Outside Market Influences / Volatility
- World & U.S. Grain Market Fundamentals
- □ Barley, Corn and Wheat Market Trends
- □ 2015 Grain Crop Issues

2014 Harvest Quality Disaster

Wettest August across southern and eastern Idaho since 1953. Monsoonal rains started August 4 and didn't finish for about 5 weeks.



Significant Pre-Harvest Sprout

- Barley and wheat germinated within the grain head prior to harvest.
- Occurs when harvest is delayed because of overly wet conditions.
- Genotypes with shorter dormancy period are higher risk.
- Increased enzyme activity causes breakdown of proteins and starches.
- Decreased grain yields and quality downgraded to feed.
 Economic losses estimated \$120-150 million.







The Malting Process

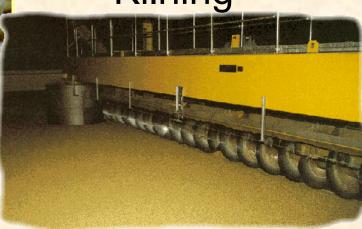
Steeping



Germination



Kilning



Idaho Barley Highlights

Harvested acreage 510,000 acres -18%

Ave. Yield 94.0 bu/Ac +1%

Production 47,940,000 bu -17%

- 27% of U.S. total barley production
- 2014 Idaho farm-gate receipts estimated at \$266 million, down 22% from 2013 and 5th largest Idaho cash crop
- 2014 insurance indemnities \$21.5 million
- 2015 malting barley contract prices are steady to 10% lower
- 2015 projected acres (USDA March 31) 580,000, +4%

Idaho Wheat Highlights

Harvested acreage 1,196,000 acres -5%

Ave. Yield 78.4 bu/Ac -5%

Production 93,720,000 bu -10%

- 2014 Idaho farm-gate receipts estimated at \$646 million, down 13% from 2013 and 2nd largest Idaho cash crop
- 2014 insurance indemnities \$26.6 million
- 2015 SW and HRS prices have enjoyed strong basis
- 2015 projected acres (USDA March 31) 1.327 million, +4%

Outside Market Influences

- Speculative \$\$\$ Bearish Grains
- Geopolitical concerns Middle East, Iran, Ukraine/Russia
- Global economic worries
 - Chinese and European economies slowed
 - U.S. economic growth slowed Q1 2015
 - Dollar at 11+ year high
 - Global economic growth prospects?

MY 2014/15 World Grain S&D USDA, May 12, 2015

	World	<u>U.S.</u>	World	U.S.	World	U.S.
	Barley	<u>Barley</u>	Corn	Corn	Wheat	Wheat
Output	140.9 MMT	3.8 MMT	996 MMT	361.1 MMT	726.5 MMT	55.1 MMT
	- 3%	- 18%	+ .6%	+ 3%	+ 1%	- 5%
Use	141.5 MMT	4.2 MMT	977.4 MMT	299.7 MMT	715.5 MMT	32.6 MMT
	+ 0.3%	- 12%	+ 3%	+ 2%	+ 2%	- 5%
Ending	24.5 MMT	1.7 MMT	192.5 MMT	47 MMT	200.9 MMT	19.3 MMT
	- 2%	- 6%	+ 11%	+ 50%	+ 6%	+ 20%
Stocks / Use (previous year)	17%	38%	20%	14%	28%	34%
	(18%)	(35%)	(18%)	(9%)	(27%)	(24%)

MY 2015/16 World Grain S&D USDA, May 12, 2015

	World	U.S.	World	U.S.	World	U.S.
	Barley	Barley	Corn	Corn	Wheat	Wheat
Output	139.7 MMT	4.3 MMT	989.8 MMT	346.2 MMT	718.9 MMT	56.8 MMT
	- 1%	+ 12%	+ 1%	- 4%	+ 1%	+ 3%
Use	142.1 MMT	4.6 MMT	990.4 MMT	301.2 MMT	716.6 MMT	33.2 MMT
	+ 0.4%	+ 9%	+ 1%	+ 0.5%	+ 1%	+ 2%
Ending	22.1 MMT	1.7 MMT	191.9 MMT	44.4 MMT	203.3 MMT	21.6 MMT
	- 10%	0 %	- 0.3%	- 6%	+ 1%	+ 12%
Stocks / Use (previous year)	16%	35%	19%	13%	28%	37%
	(17%)	(38%)	(20%)	(14%)	(28%)	(34%)

Grain Price Outlook

National ave. prices USDA WASDE May 12, 2015	Barley	Corn	Wheat
USDA MY 2014/15	\$5.30	\$3.65	\$6.00
Idaho prices	\$4.90		\$6.15
USDA MY 2015/16	\$4.50	\$3.50	\$5.00
	2015 Idaho malt contract prices \$5.50 - \$6.24		



Barley Market 2014/15



- Lower world and U.S. production after significant recovery in 2013
- U.S. production -18%
- U.S. usage -12%
- World Ending Stocks -2%
- U.S. Ending Stocks -6%
 - World stocks-to-use 17% (18%)
 - U.S. stocks-to-use 38% (35%)

Barley Market 2015/16



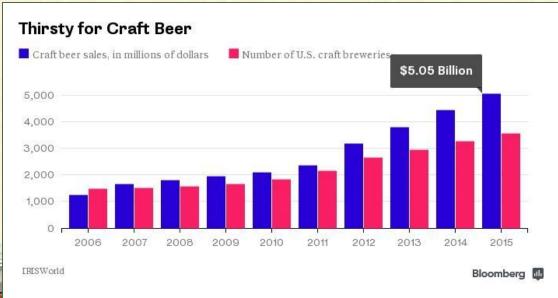
- World production -1%
- U.S. production +12%
 - Planted acreage +10%
 - Yield 70.7 bpa -2%
- U.S. usage +9%
- World Ending Stocks –10%
- U.S. Ending Stocks 0%
 - World stocks-to-use 16% (17%)
 - U.S. stocks-to-use 35% (38%)



Domestic Barley Market

- 67% used for malting / beer
- Domestic beer sales + 0.5%
 in 2014, following 1.9%
 decrease in 2013
- Craft segment robust growth + 18%. Represents about 11% of total volume but uses about 25% of malt





Domestic Barley Market

- About 30% used for feed Idaho demand remains strong:
- About 2-3% used for other human foods
 - Good fit for rising dietary health risks: heart disease, high cholesterol, obesity and diabetes.
 - Barley has 18% fiber content
 - Barley health claim lowers bad cholesterol
 - Barley is low glycemic carbohydrate

Barley Price Outlook



Ave. U.S. farm-gate price projection:
 MY 2015/16* - \$4.50/bu, down 15%

MY 2014/15 - \$5.30, down 13%

MY 2013/14 - \$6.06, down 6%

MY 2012/13 - \$6.43, up 20%

- Idaho malting barley prices
 \$6.00/bu May 2015 vs. \$4.80/bu May 2014
- Idaho feed barley prices
 \$2.30 3.00/bu May 2015 vs. \$4.20 4.32/bu

Corn Market 2014/15



- RECORD global corn crop
- RECORD U.S. production in 2013 & 2014
- 14.2 billion bu, up 3%
- Ave. yield of 171 bpa, up 8%
- Harvested acreage 83 million, down 5%
- Two back to back years of higher ending stocks +52% and +50%

SLUGGISH DEMAND

- Total U.S. usage up 1%
- Feed use up 4% (5.25 billion bu)? Avian flu expanding across 15 states
- Record ethanol use up 1.2% (5.2 billion bu)?
- Exports down 5%

Corn Market 2014/15

- WILD CARD: Chinese imports? 3.0 MMT projected for MY 14/15 vs. 3.3 MMT last year. U.S. just restored as corn supplier.
- China holds about 47% of world's corn stocks.
 - World corn stocks-to-use 20% (18%)
 - U.S. corn stocks-to-use 14% (9%)

Corn Market 2015/16

- World production -1%
- U.S. production -4%
 - Planted acreage -2%
 - Yield 166.8 bpa (trendline) -2.5%
- U.S. usage +1%
- World Ending Stocks 0.3%
- U.S. Ending Stocks –6%
 - World corn stocks-to-use 19% (20%)
 - U.S. corn stocks-to-use 13% (14%)

Global Corn Outlook

Bigger Crops

China +6% Argentina +2%

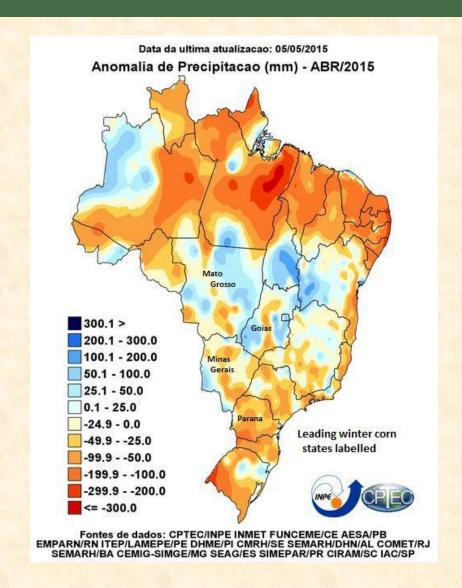
Smaller Crops

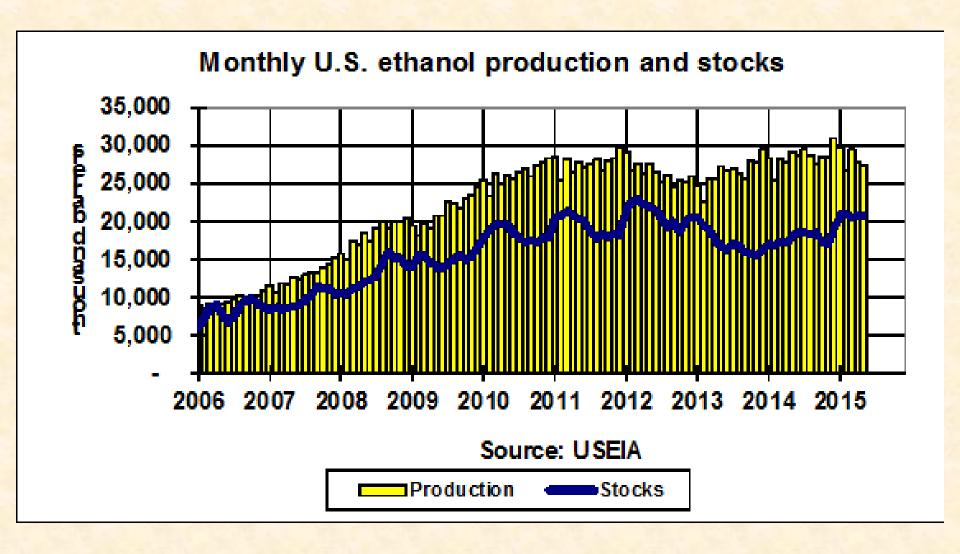
U.S. -4%

Brazil -4%?

Ukraine -7%

EU-7%



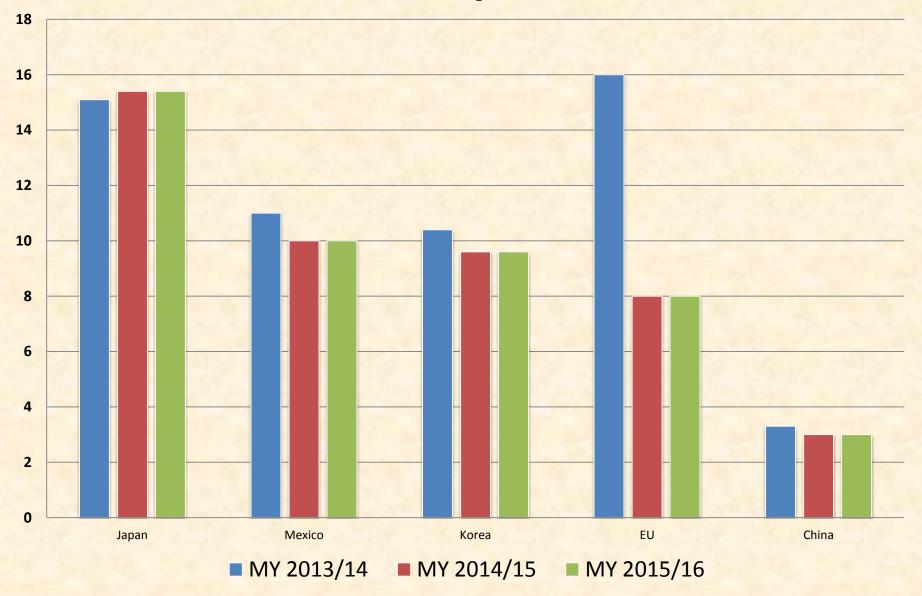


MY 2014/15 projected corn used for ethanol – 5.2 billion bu, up 1.2%

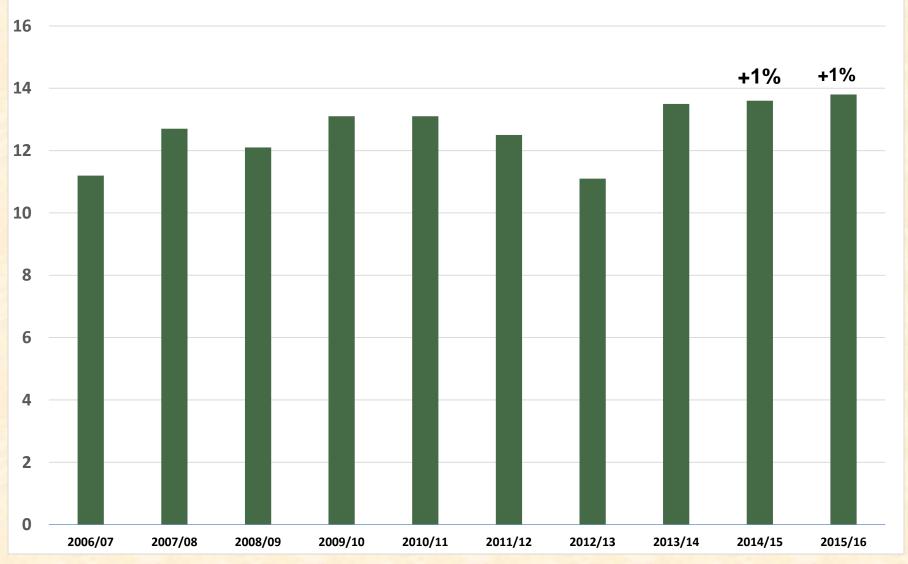
World Corn Prod, Use, Stocks/Use



World Corn Importers, MMT











Corn Price Outlook



Ave. U.S. farm-gate price projection:
 MY 2015/16* - \$3.50/bu, down 4%

MY 2014/15 - \$3.65/bu, down 18%

MY 2013/14 - \$4.46, down 35%

MY 2012/13 - \$6.89, up 11%

*USDA May 12, 2015 projected

Wheat Market 2014/15



- RECORD global wheat crop
- U.S. crop down 5%
- Total U.S. usage down 15%
- U.S. wheat export sales pace has been very sluggish, down 27%
- U.S. feed usage down 28%
- Rebuilding stocks +16%
 - World stocks-to-use 28% (27%)
 - U.S. stocks-to-use 34% (24%)

Wheat Market 2015/16



- World production +1%
- U.S. production +3%
 - Planted acreage -2.5%
 - Harvested acreage +3.4%
 - Yield 43.5 bpa -0.5%
- U.S. usage +4%
- World Ending Stocks +1%
- U.S. Ending Stocks +12%
 - World corn stocks-to-use 28% (28%)
 - U.S. corn stocks-to-use 37% (34%)

Global Wheat Outlook

Bigger Crops

U.S. +3%

Australia +8%?

Smaller Crops

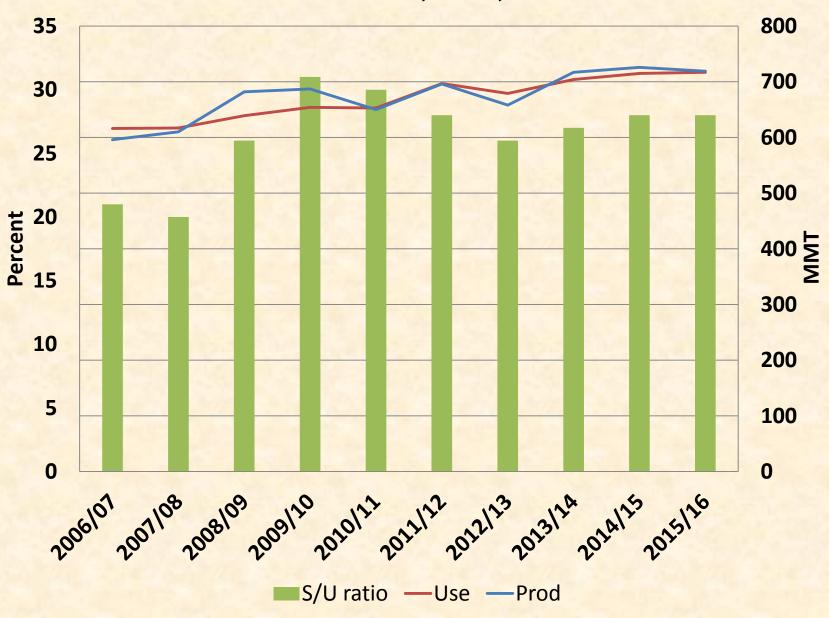
EU-4%

Russia -11%

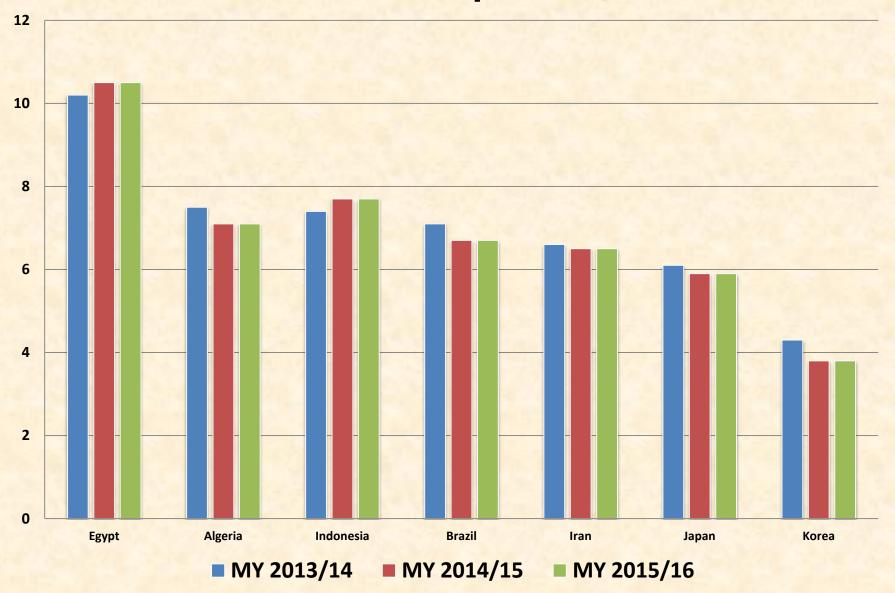
Ukraine -11%

Argentina -4%

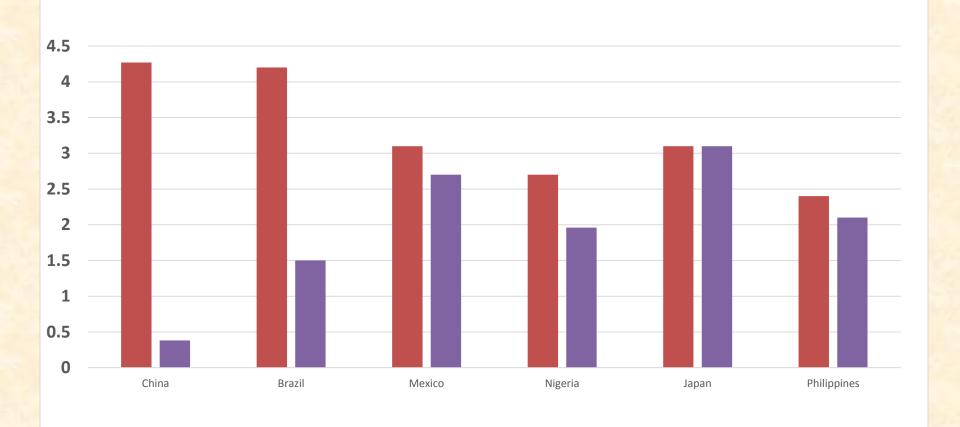
World Wheat Prod, Use, Stocks/Use



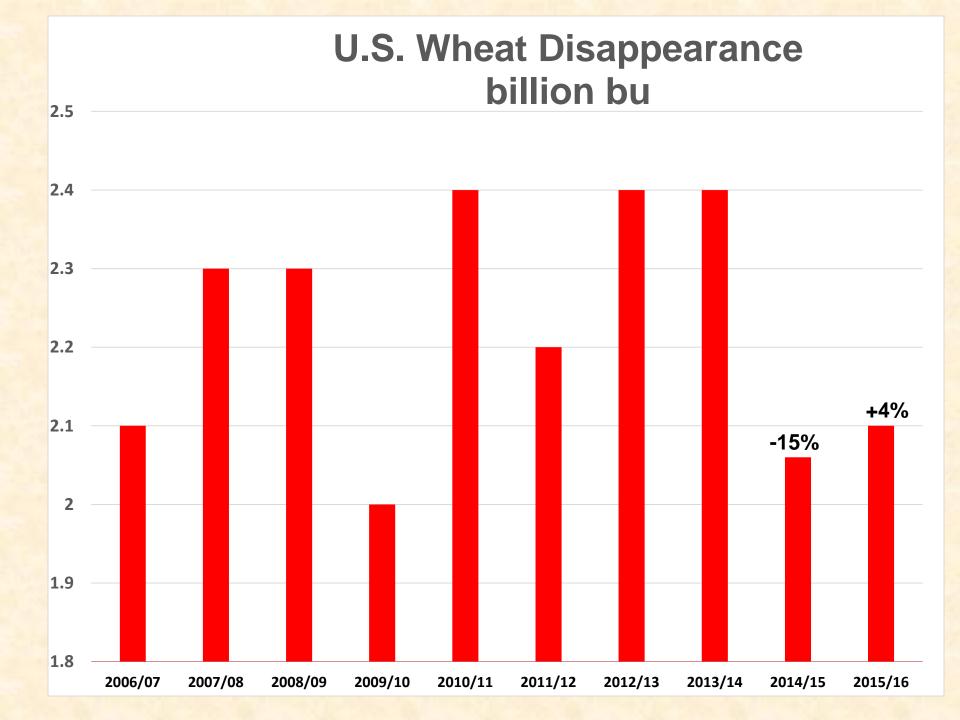
World Wheat Importers, MMT



Top U.S. Wheat Customer Imports 2013/14 vs. 2014/15 YTD, MMT



■ MY 2013/14 ■ MY 2014/15







Wheat Price Outlook



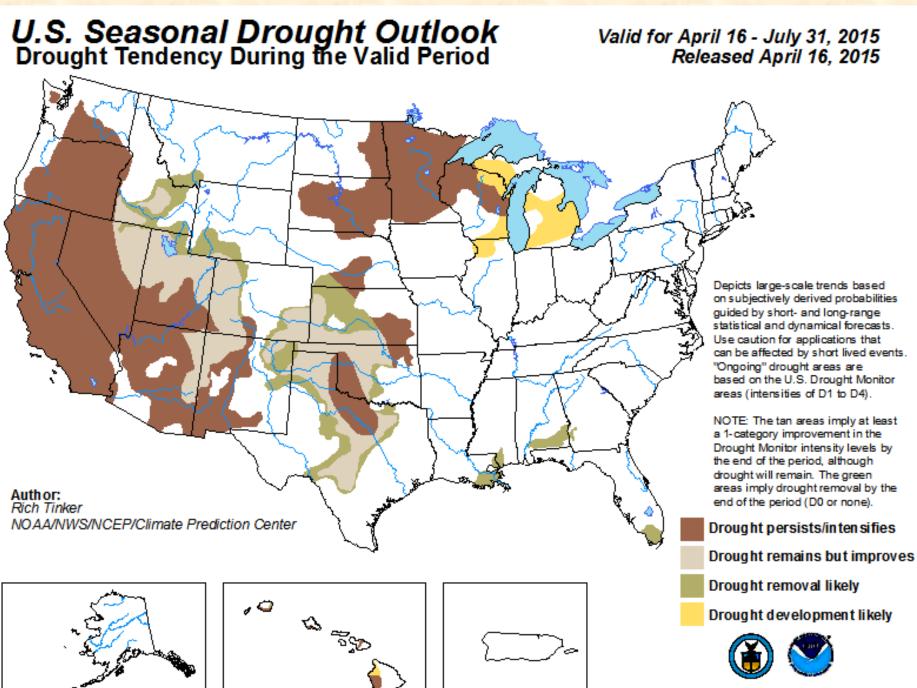
Ave. U.S. farm-gate price projection:
 MY 2015/16* - \$5.00/bu, down 17%

MY 2014/15 - \$6.00/bu, down 11%

MY 2013/14 - \$6.87, down 12%

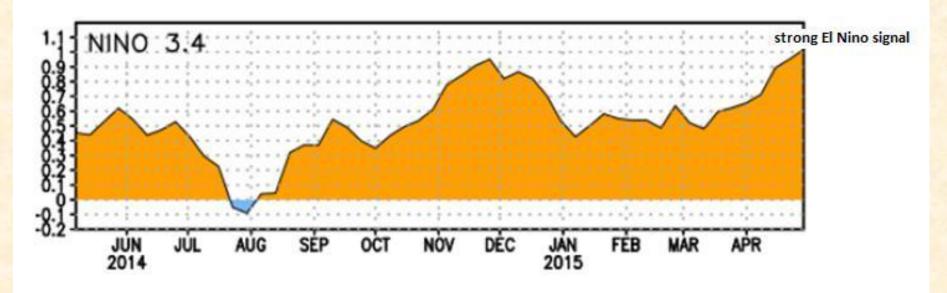
MY 2012/13 - \$7.77, up 7%

- Idaho SWW prices: \$4.45 5.14/bu May 2015 vs.
 \$6.30-6.70 May 2014
- Idaho HRS prices: \$5.93 6.18/bu May 2015 vs. \$7.18 7.34



http://go.usa.gov/hHTe

Sea Surface Temperature Anomalies (C) Nino 3.4 Region of Equatoria Pacific Ocean

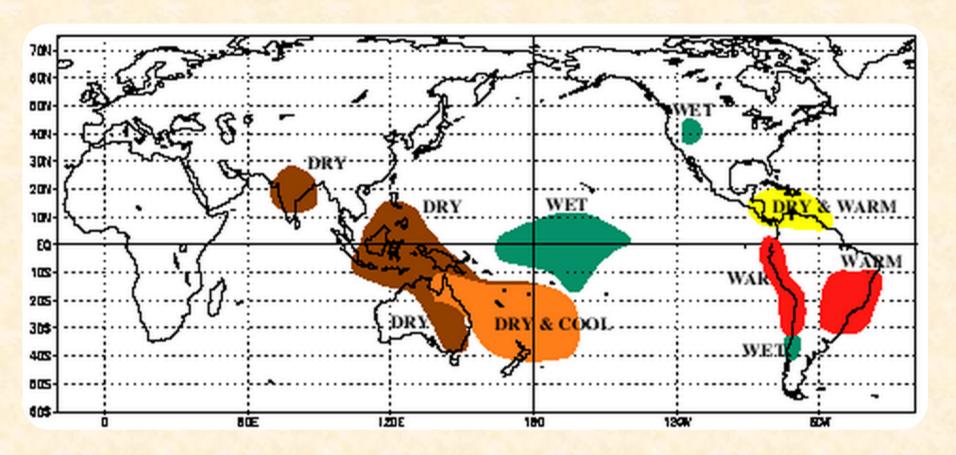


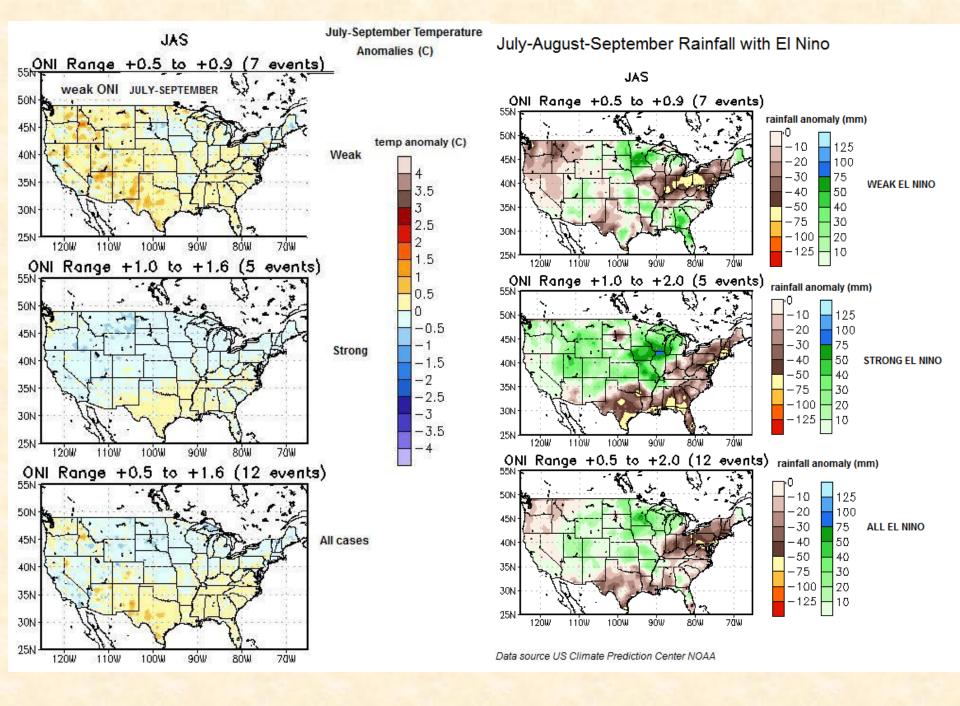
Data source US Climate Prediction Center

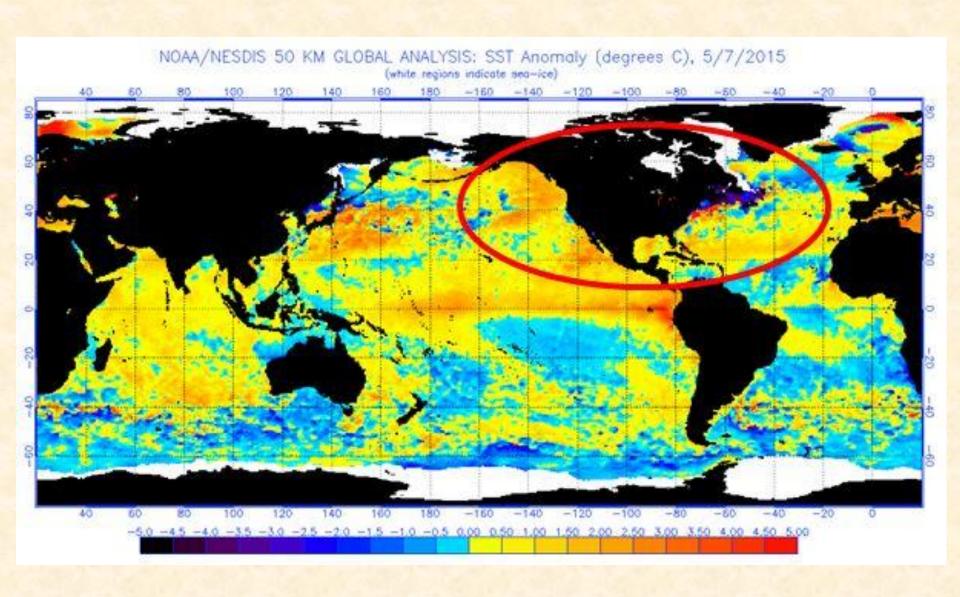
Strong El Nino Signal – positive 1 C anomaly in early May represents the warmest conditions since 2009, indicating an exceptionally strong El Nino signal. What does that mean for 2015 crop production?

- Wetter than normal Central U.S.
- Cooler than normal Upper Midwest

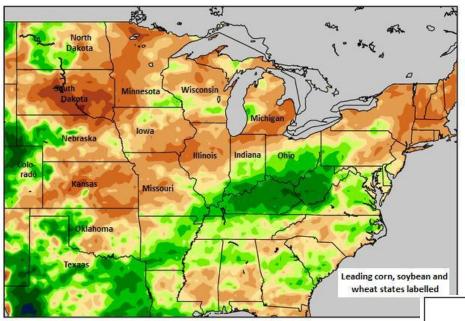
Typical El Niño Summer Impacts June – August



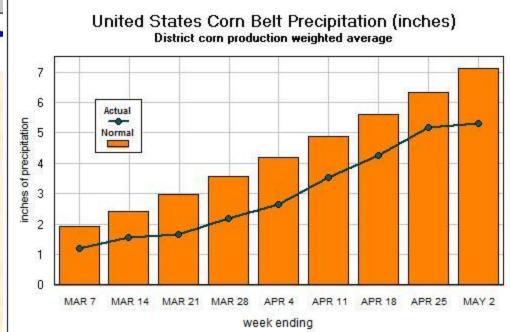




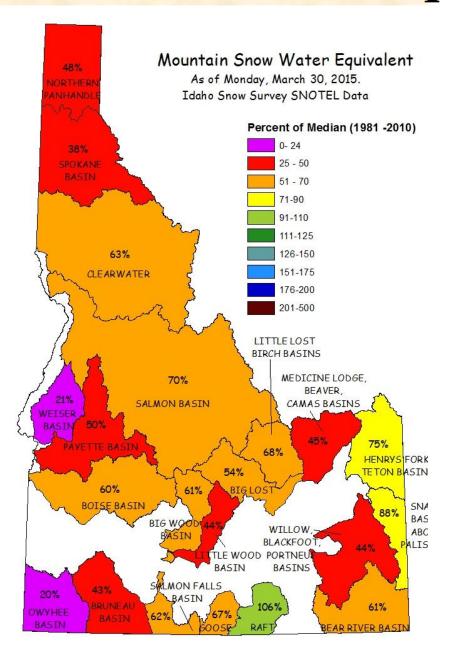
Martell Crop Projections 90—day Precipitation Analysis Percent of normal through 4 May 2015

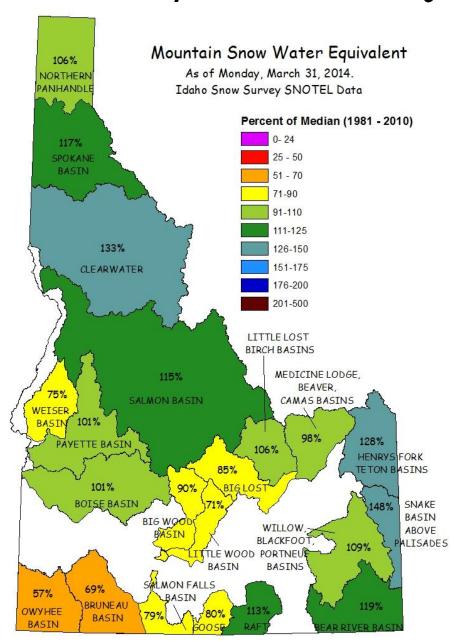


- Main Corn Belt trended dry during winter months, except ECB.
 Heavy soaking rains through May.
- Central / Southern Plains very dry until past three weeks. Recent wet trend very consistent with El Nino.
- Summer precipitation could be game of variability & extremes.

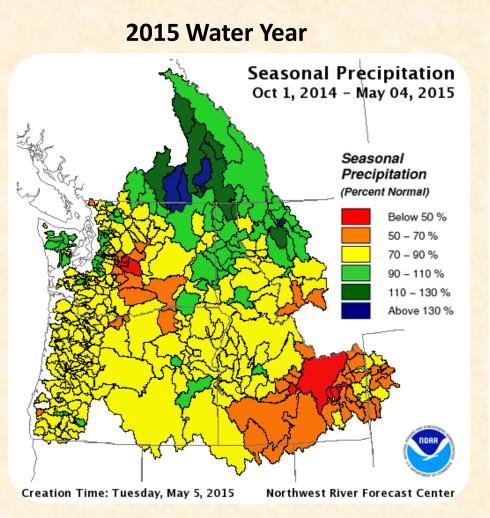


Mountain Snow Equivalent / melts early

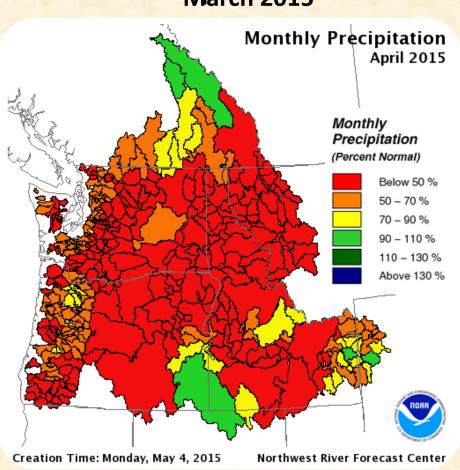




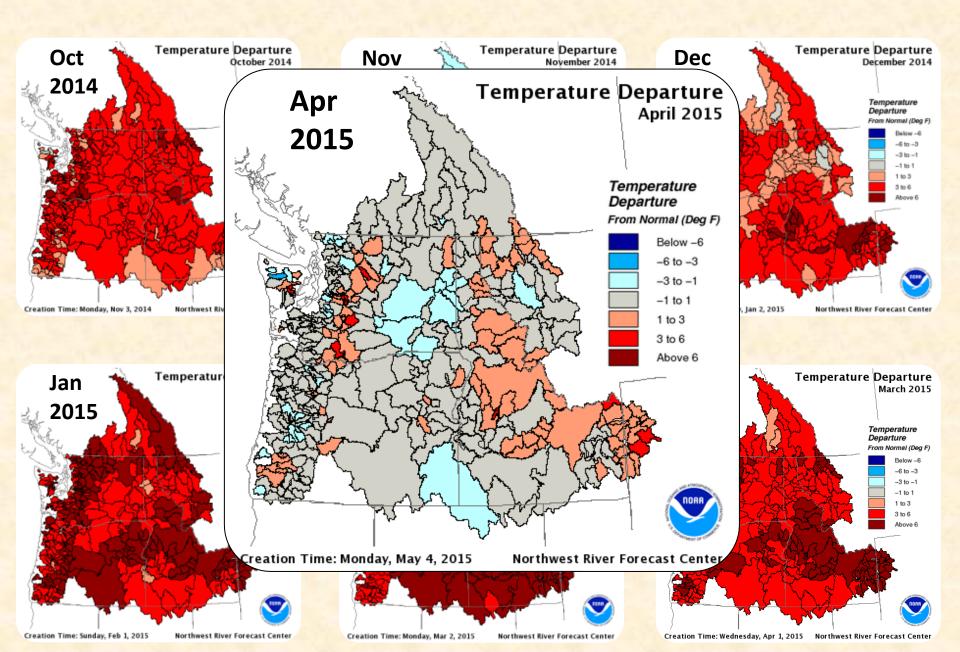
Observed Seasonal Precipitation



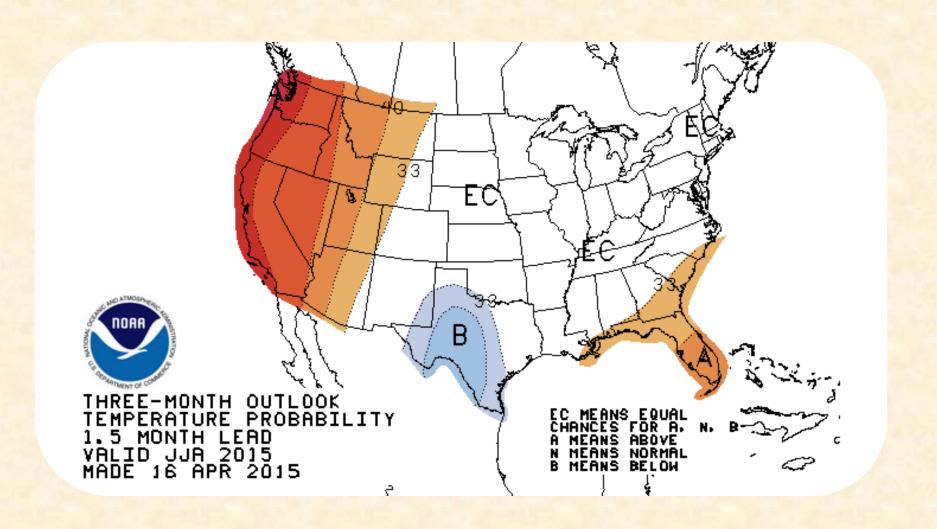




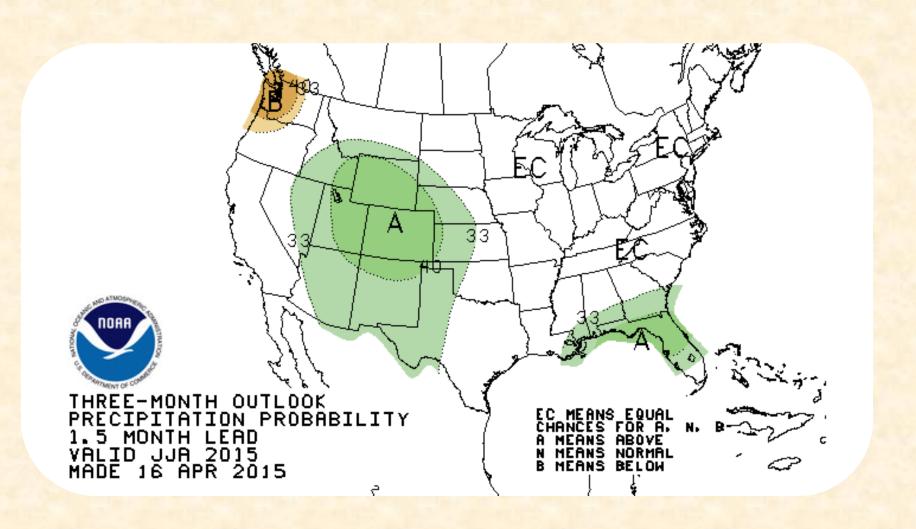
Observed Seasonal Temperatures



Temperature Outlook June –Aug 2015



Precip Outlook June -Aug 2015



2015 Idaho Grain Crop Issues

- Barley Yellow Dwarf Virus is severe in winter wheat and winter barley across south-central Idaho. Yield losses likely to be significant. Not significant problem in spring grains.
- Moderate winter could lead to greater pest infestations such as armyworms, thrips and mealybugs, compounded by moisture stress.
- High potential for Wheat Stripe Rust, confirmed at Parma, Filer, Tetonia, Logan, UT
- http://www.uidaho.edu/extension/cereals/ scseidaho



